## Human Herpes Simplex Virus Type 1 in Confiscated Gorilla

## **Technical Appendix**

Majority	DFASLYPSIIQAHNLCFSTLSLRADAVAHLEXXRDYLEIEVGGRRLFFVKAHVRESLLSILLRDWLAMRKQIRSRIPQSS							
	10	20	30	40	50	60	70	80
Gorilla	DFASLYPSIIQAHNI	CFSTLSLRAD	AVAHLEAGKD	YLEIEVGGRR	LFFVKAHVRE	SLLSILLRDW	LAMRKQIRSR	IPQSS 80
ISV-1	DFASLYPSIIQAHNI	CFSTLSLRAD	AVAHLEAGKD	YLEIEVGGRR	LFFVKAHVRE	SLLSILLRDW	LAMRKQIRSR	IPQSS 80
ISV-2	DFASLYPSIIQAHNI	CFSTLSLRPE	AVAHLEADRD	YLEIEVGGRR	LFFVKAHVRE	SLLSILLRDW	LAMRKQIRSR	IPOST 80
laHV-l	DFASLYPSIIQAHNI	CFSTLSLSAD	AVAGLEPDRD	YLAIEVGGRR	LFFVKAHVRE	SLLSILLRDW	LAMRKQIRSR	IPOST 80
PaHV-2	DFASLYPSIIQAHNI	CFSTLSLSAD	AVAGLEPERD	YLAIEVGGRR	LFFVKAHVRE	SLLSILLRDW	LAMRKQIRSR	IPHSA 80
HHV-3	DFASLYPSIIQAHNI	.CFTTLTLNFE	TVKRLNPS_D	Y <u>ATFT</u> VGG <u>K</u> R	LFFV <u>RSN</u> VRE	SLL <u>GV</u> LL <u>K</u> DW	LAMRKAIRAR	IPGSS 79
Majority	PEEAVLLDKQQAAI							
	+-	+	+		+	+	+	+
	90	100	110	120	130	140	150	160
Sorilla	PEEAVLLDKQQVAL	VVCNSVYGFT	GVQHGLLPCL	HVAATVTTIG	REMLLATREY	VHARWAAFEQ	LLADFPEAAD	-MRAP 19
ISV-1	PEEAVLLDKQQAAI	CVVCNSVYGFT	GVQHGLLPCL	HVAATVTTIG	REMLLATREY	VHARWAAFEQ	LLADFPEAAD	-MRAP 15
ISV-2	PEEAVLLDKQQAAI	VVCNSVYGFT	GVQHGLLPCL	HVAATVTTIG	REMLLATRAY	VHARWAEFDQ!	LLADFPEAAG	-MRAP 15
laHV-l	PEEAVLLDKQQAAI	VVCNSVYGFT	GVQHGLLPCL	HVAATVTTIG	RDMLLATREY	VHERWMTLDR	LEADFPEAAG	-MRAP 15
aHV-2	PEEAVLLDKQQAAI	CVVCNSVYGFT	GVQHGLLPCL	HVAATVTTIG	RDMLLATREY	VHARWTTFDR	LEADFPEAAT	-MRAP 15
HV-3	<u>SD</u> EAVLLDKQQAAI	CVVCNSVYGFT	GVAOGFLPCL	YVAATVTTIG	ROMLLSTRDY	IH <u>NN</u> WAAFER	FITAF PDIES	SVLSQ 1
Majority	GPYSMRIIYGDTDSI	FVLCRGLTAX	GLTAMGDKMA	SHISRALFLP	PIKLECEKTF	TKLLLIAKKK	YIGVIXGGKM	LIKGV
		+	+	+	+	+	+	+
	170	180	190	200	210	220	230	240
Gorilla	GPYSMRIIYGDTDSI	FVLCRGLTAA	GLTAMGDKMA	SHISRALFLP	PIKLECEKTF	TKLLLIAKKK	YIGVIYGGKM	LIKGV 2
ISV-1	GPYSMRIIYGDTDS1	FVLCRGLTAA	GLTAMGDKMA	SHISRALFLP	PIKLECEKTF	TKLLLIAKKK	YIGVIYGGKM	LIKGV 2
ISV-2	GPYSMRIIYGDTDSI	FVLCRGLTAA	GLVAMGDKMA	SHISRALFLP	PIKLECEKTF	TKLLLIAKKK	YIGVICGGKM	LIKGV 2
MaHV-1	GPYSMRIIYGDTDSY	FVLCRGLTAE	GLTAMGDRMA,	AHISRALFLP	PIKLECEKTF	TKLLLIAKKK	YIGVVCGGKM	LIKGV 2
aHV-2	GPFSMRIIYGDTDSI	FVLSRGLTAE	GLTAMGDRMA,	AHISRALFPP	PIKLECEKTF	TKLLLIAKKK	YIGVICGGKM	LIKGV 2
HV-3	<u>KAYEVKV</u> IYGDTDS <u>V</u>	FI <u>RFK</u> G <u>VSV</u> E	G <u>IAKI</u> G <u>E</u> KMA	<u>HI</u> IS <u>T</u> ALF <u>C</u> P	PIKLECEKTF	IKLLLI <u>T</u> KKK	YIGVIYGGK <u>V</u>	LMKGV 2
Majority	DLV							
orilla	DLV 242							
ISV-1	DLV 242							
ISV-2	D 240							
iaHV-1	DLV 242							
PaHV-2	DLV 242							
HHV-3	DLV 242							

Technical Appendix Figure. Sequence alignment of the regions of *UL30* from the gorilla amplicon, HSV-1, HSV-2, MaHV-1, PaHV-2, and VZV with a majority sequence presented representing the amino acid found in most of the individual sequences. Differences from the majority sequence are underlined. The 3 aa that are boxed (aa 92–94) represent a cluster of amino acids (VAL) unique to the gorilla amplicon and not found in other alphaherpesviruses, particularly the V at position 92. However, the following 3 aa are found at the corresponding region in other HHVs: HHV-4 (LAI), HHV-5 (MAL), HHV-6 (LAL), and HHV-8 (LAI) (not shown). EHV, equid herpesvirus; HSV, herpes simplex virus; HHV, human herpesvirus; MaHV, Macacine herpesvirus; PaHV, Papiine herpesvirus.